

REMARKS

The Office Action dated June 23, 2004 included an election of species requirement. More specifically, Applicants were required under 35 U.S.C. § 121 to elect a single disclosed species from among the three species listed in the Office Action for prosecution on the merits. The three species listed in the Office Action were:

Figure Group I: Figures 1-16;

Figure Group II: Figures 1-3 and 17-21; and

Figure Group III: Figures 1-3 and 22-25.

Applicants provisionally elect to prosecute the subject matter of Figure Group III (Figures 1-3 and 22-25). Applicants also indicate that claims 1-31 are readable thereon. However, this provisional election is made with traverse.

Controller 31, illustrated in Figure 22, may be implemented according to the functional block diagram illustrated in Figure 5. Also, controller 31, in operation, may have the associated switching line for response assignment control illustrated in Figure 6 and/or the response characteristics illustrated in Figure 7.

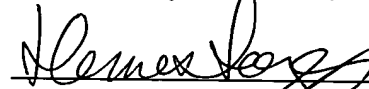
In addition, first decimation filter 36, which is also illustrated in Figure 22, may be implemented according to the functional diagram illustrated in Figure 8. First decimation filter 36, in operation, may have the responses, output, and characteristics illustrated in Figures 9-15.

Further, second decimation filter 37, which is also illustrated in Figure 22, may be implemented according to the functional block diagram illustrated in Figure 18. Second decimation filter 37, in operation, may operate according to the characteristics, resolution, and output illustrated in Figures 19-21. Therefore, Figures 5-16 and 18-21 illustrate subject matter that is not patentably distinct from the subject matter illustrated in Figures 1-3 and 22-25.

In view of the above, Applicants respectfully submit that claims 1-31 are all directed to the single invention illustrated in Figures 1-3, 5-15, and 18-25. Applicants also respectfully request that claims 1-31 of the present application be examined in view of Figures 1-3, 5-15, and 18-25.

In the event this paper is not being timely filed, Applicants respectfully petition for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account 50-2222.

Respectfully submitted,



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